

**United States Patent** [19]

Kaneko et al.

[11] Patent Number: **4,899,212**[45] Date of Patent: **Feb. 6, 1990**[54] **WHITE BALANCE ADJUSTING DEVICE  
FOR A CAMERA**[75] Inventors: **Kiyotaka Kaneko; Izumi Miyake;  
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Shimaya, all of Tokyo, Japan**[73] Assignee: **Fuji Photo Film Co., Ltd., Kanagawa,  
Japan**[21] Appl. No.: **366,210**[22] Filed: **Jun. 15, 1989****Related U.S. Application Data**

[63] Continuation of Ser. No. 236,992, Aug. 26, 1988, abandoned.

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Aug. 28, 1987 [JP] Japan ..... 62-214383[51] Int. Cl.<sup>4</sup> ..... **H04N 9/73**[52] U.S. Cl. .... **358/29; 358/41;  
358/909**[58] Field of Search ..... **358/29, 29 C, 41, 909****References Cited****U.S. PATENT DOCUMENTS**

3,626,088	12/1971	Schneider	358/29 C
4,281,337	7/1981	Nakamura	358/29 C
4,524,381	6/1985	Konishi	358/29 C
4,558,368	12/1985	Aoki et al.	358/909 X
4,584,598	4/1986	Kutzragi	358/29 C
4,590,512	5/1986	Kondo	358/29 C
4,595,946	6/1986	Uehara et al.	358/29 C
4,599,657	7/1986	Kinoshita et al.	358/909 X
4,605,955	8/1986	Hashimoto et al.	358/29 C

4,633,300	12/1986	Sakai	358/29 C
4,646,161	2/1987	Tsuchiya et al.	358/41 X
4,739,392	4/1988	Ueda et al.	358/29 C
4,739,393	4/1988	Seki et al.	358/29 C
4,774,564	9/1988	Konishi	358/41 X
4,805,010	2/1989	Shroyer et al.	358/41 X

**FOREIGN PATENT DOCUMENTS**

55-30265	3/1980	Japan	358/29 C
56-4993	1/1981	Japan	358/29 C
60-254980	12/1985	Japan	358/29 C
61-240790	of 1986	Japan	

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**[57] ABSTRACT**

A white balance adjusting device for use in a camera which photographs a field and forms a video signal representing the field. In the white balance adjusting device, while a sequential photographing is under way, updating of the color temperature data to be used for adjusting a white balance is prohibited. Therefore, the hues of main objects in the respective frames of still images photographed by the sequential photographic operation remain unchanged, thereby maintaining the homogeneity of the main objects. Also, in the white balance adjusting device, control a device is used to provide a short response time for a quick response property in a still mode and to provide a longer response time in a movie mode when compared with the still mode. As a result, the white balance can be adjusted according to the photographic modes of the camera.

**6 Claims, 4 Drawing Sheets**